

**PROJECT:** Midnite Mine Remediation**REPORT NO:** 2021-06**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period April 30 – May 6, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

**SITE HEALTH, SAFETY, AND SECURITY**

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period April 30 – May 6, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: Nothing of importance to report.			

**COMMUNITY LIAISON**

- Notification sent to Mr. Sherwood for BIA #55 road closure June 07 thru Nov. 5<sup>th</sup>, 2021
- STOI Council visit. Date set as May 11, 10:00 a.m. to 12: p.m. 5 council and 1 TERO compliance officer
- Infectious Disease Plan updated and sent to STOI for approval.

**PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS****Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 28 April5 May 2021 at 10:00;

- EPA
- Spokane Tribe of Indians
- Jacobs
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- AJAX
- Stantec

**Meeting Action Items:**

- None.

#### EPA Plan/Document Approvals:

- There were no plan/document approvals this time period.

#### Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 3-6 May.

## REMEDIAL WORK ACTIVITIES

#### Construction:

During the week of April 30 – May 6, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP) and the Pit 4 Overburden Pile. Newmont placed these materials along the outside perimeter of the Pit 4 Waste Containment Area (WCA).
- Newmont extended the Pit 4 Vertical Dewatering Risers.
- Newmont removed wood chips from the Southwest Topsoil Stockpile in accordance with RFI 2021-03 and established radiological control station at the topsoil pile.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel, Liner Bedding and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with a sample of Drain Gravel submitted to Budinger and Associates for gradation analysis. Gradations from samples collected last week conform with project specifications.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 7 May. SLV shut down the crushing operation during the observation to make repairs to dust control spray bars.
- Northwest Linings completed liner repair activities in the east cell of the South Pond. Representatives from CQC, CQA and Vikek Environmental observed liner repair activities.
- Newmont pumped water from the west cell to the east cell of the South Pond and began removing sediments from the west cell. There are no leaks in the east cell primary liner to a water depth of 14 feet.
- Hi-Tech Rockfall continued installing rockfall drapery mesh on the east side of the Pit 3 access road.
- Stantec performed South Pond Embankment Stability inspection on 6 May. The embankment remains stable and movement monitoring points remain within tolerance.

**Table 1 – 2021 Production Estimates**

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	32,278	52,612	163%	132,674	212,884	160%	28%
HSWRP	1,889	224	12%	10,401	2,632	25%	4%
Pit 4 Overburden	4,651	26,152	562%	27,907	68,964	247%	21%
Total	38,818	78,988	203%	170,982	284,480	166%	25%

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Aggregate Production							
Drain Gravel	8,500	4,647	55%	51,000	19,650	39%	7%
Liner Bedding	0	567	--	8,610	1,296	15%	14%
Geomembrane Bedding	8,500	4,710	55%	51,000	20,362	40%	5%
Total	8,500	4,647	55%	51,000	19,650	39%	7%

1 - Truck load assumed to be 27 yd<sup>3</sup>

### Stormwater Pollution Prevention Plan (SWPPP)

- Stantec performed post storm event and weekly SWPPP inspection on 5 May. No new BMPs or maintenance activities identified.

### Spill Prevention, Control, and Countermeasure Activities (SPCC)

- Monthly SPCC inspection performed on 30 Apr. No deficiencies identified.

### Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- ChemGrout grout mixer and pump

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

### Materials:

The following material was delivered to the Site during this reporting period.

- Rockfall protection netting and anchor posts.

## CONSTRUCTION QUALITY ASSURANCE

### Dust Control and Monitoring

Seven dust monitors operated on site at the locations and for the time intervals listed in Table 1 below. There was one exceedance of the TSP action level during this time-period. On Tuesday evening (5/4/2021), sampler ES-7 alarmed and was turned off for an approximate 3-hour time period. The cause of the alarm was determined to be smoke from a local prescribed burn. The burn area was located to the south of the mine site. Once the smoke dissipated, the sampler was turned back on for the remainder of site's night shift operations.

**Table 2 - TSP Dust Monitoring Locations during reporting period April 30 – May 6, 2021**

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Northeast Side of the SCSA	04/16/21	D/N			D/N	D/N	D/N	D/N
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	D/N	D/N
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/E	D/N	D/N
ES-8 (stationary)	Spare								
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) – No Operation O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

### Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

#### CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title		CQC-CQA Issue Date
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment	3/19/2021	TBD – Contingent on Newmont’s Response to Comments
Notice of Non-Compliance			
NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
NNC 2020-01 11/5/2020	South Pond Emergency Spillway Grout  Grout Placement Scheduled for 5/12/2021	Close-out TBD	NNC 2020-01 Close-out Pending Completion of the Supplemental GCS at GCS-04
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
2021-01	Electrofusion of HDPE Pipe Joints	4/24/2021	CQA Acceptance 4/29/2021 EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)

01018-43	Total Station Calibration	4/22/2021	CQA Acceptance 4/26/2021 <b>EPA - TBD</b>
02273-03	South Pond Emergency Spillway – Grout Design	4/28/2021	CQA Acceptance 5/5/2021 <b>EPA Acceptance 5/5/2021</b>
02594-13	HDPE Pipe (Pit 3 Dewatering System)	5/4/2021	CQA Acceptance 5/5/2021 <b>EPA Acceptance TBD</b>
<b>Other Items</b>			
<b>Item</b>	<b>Title</b>	<b>Comments</b>	
Review of Halme Construction Submittals	Effluent Pipeline Submittals 1. HC-02160-01.0 A-Jacks for Bank Stabilization 4/26/2021 2. HC-01575-01.1 Draft SPCC 4/26/2021 3. HC-02567-01.1 Contech Corrugated Culverts with Variance Memo (48") 4/26/2021 4. HC-02274-01.1 Geotextiles 4/27/2021 5. HC-01570-01.1 HCI Proposed Addendum to SWPPP 4/27/2021 6. HC-02140-01.3 Proposed Dewatering Plan 5/6/2021 7. HC-01551-01 Traffic Control Plan 4/28/2021 8. HC-01585-01.1 Equipment List with Tier Levels 5/5/2021 9. HC-01018-01.2 Survey Equipment Specification 5/5/2021	CQA – TBD <b>EPA - TBD</b>	

Copies of the updated CQA Logs are located on the project SharePoint site under the 2021 CQA Folder.

## Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

## Preparatory Inspections / Meetings

None

## Initial Phase Inspections

High-Tech Rockfall (Rockfall Protection) – Received:

- Material Certifications
- Calibration Records for Testing Machine

## Follow-up Phase and Ongoing Inspections

- Ongoing South Pond Liner Leak Investigation – East Cell inspections with respect to extrusion-welded patches/caps and visual/vacuum box testing in the East Cell.
- Intermittent Checks on Mine Waste Placement in Pit 4 – Only low activity/low reactivity material from the SWRP and Upper Overburden Pile was placed (5/4 through 5/6/2021).

## Completion Inspections

- 4/30/2021 Partial Completion Inspection - East Cell pond liner from pond bottom up to the top of the divider berm/East Cell waterline. NWL, CQC/Vikek and CQA approval. Approval relayed to the Newmont Mine Superintendent who then began the transfer of water from the West Cell to the East Cell of the pond. Patching for the upper slopes of the pond scheduled to continue through the end of the week (5/7/2021).

## THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments
<ul style="list-style-type: none"><li>• Attachment A – Midnite Mine 3 Week Lookahead Schedule</li></ul>
Photos of pertinent items are provided below.





Figure 1 – Installing new section on Pit 4 Vertical Dewatering Riser.



Figure 2 – Backfilling around Pit 4 Vertical Dewatering Risers following installation of new riser sections.





Figure 3 – Excavating and hauling material from Pit 4 Overburden Upper.



Figure 4 – View of Pit 4 looking South from the Pit 4 Overlook (photo taken 3 May).





Figure 5 – Cleaning the liner in the West cell of the South Pond (looking East).



Figure 6 – Hi-Tech Rockfall grouting anchors for the wire mesh drapery system – east side entrance to Pit 3





Figure 7 – Northwest Linings testing extrusion welds with a vacuum box

**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**



Midnite Mine RAWP - Three Week Look Ahead

Data Date: 07-May-21  
Print Date: 07-May-21

Activity ID	Activity Name	RD	% Complete	Start	Finish			May 02						May 09						May 16						May 23									
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr		
17. Excavation and placement of materials into Pit #4		144d		29-Mar-21 A	29-Apr-22																														
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit#4	144d	40%	29-Mar-21 A	29-Apr-22																														
18. Complete Repair of South Pond		20d		09-Apr-21 A	04-Jun-21																														
18-1030	Install South Pond Piezometer	10d	0%	17-May-21	28-May-21																														
18-1040	Support South Pond Pumping Station construction Commision South Poi	20d	5%	23-Apr-21 A	04-Jun-21																														
18-1080	Repair leaks in the East Cell of the South Pond	1d	80%	21-Apr-21 A	07-May-21																														
18-1090	Pump water from West Cell into the East Cell	3d	80%	30-Apr-21 A	11-May-21																														
18-1100	Repair Leaks in the West Cell	4d	0%	12-May-21	17-May-21																														
18-1140	Construct Grade Control Structure #4a	4d	90%	09-Apr-21 A	12-May-21																														
20. Haul and place Cover material over the Pit#4 WCA		160d		29-Mar-21 A	23-May-22																														
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	155d	4%	29-Mar-21 A	16-May-22																														
20-1060	Produce Geomembrane Bedding for Pit#4	155d	5%	29-Mar-21 A	16-May-22																														
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	160d	5%	29-Mar-21 A	23-May-22																														
26. Construct the new WTP and Pipeline for discharge		20d		10-May-21	07-Jun-21																														
26-1260	Haul Topsoil from Southwest Topsoil Stockpile to the New Topsoil Stockpile	20d	0%	10-May-21	07-Jun-21																														
27. Produce drain rock and other materials necessary for the sub-waste liner system		156d		29-Mar-21 A	17-May-22																														
27-1000	Produce Drain Gravel for Pit 3	156d	7%	29-Mar-21 A	17-May-22																														
27-1030	Haul Drain Gravel, Stockpile (301k cy)	156d	7%	29-Mar-21 A	17-May-22																														
27-1060	Produce Liner Bedding for Pit 3	15d	14%	28-Apr-21 A	27-May-21																														
27-1070	Haul Liner bedding to Stockpile for Pit 3 (15,000 cy)	15d	14%	28-Apr-21 A	27-May-21																														
28. Initiate construct of the Pit#3 sump including initial construction of underdrain r		46d		03-May-21 A	13-Jul-21																														
28-1250	Install rock fall protection	46d	10%	03-May-21 A	13-Jul-21																														